# BTEC Assignment Brief

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| **Qualification** | Pearson BTEC International Level 3 Diploma in Agriculture<br>Pearson BTEC International Level 3 Extended Diploma in Agriculture |
| **Unit number and title** | Unit 21: Root Crop and Field Vegetable Production |
| **Learning aim(s)** | **A:** Investigate production and husbandry requirements for root crops and field vegetables |
| **Assignment title** | **Production and Husbandry Requirements** |
| **Assessor** | |
| **Issue date** | |
| **Hand in deadline** | |

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| **Vocational Scenario or Context** | You have been asked to go onto a farm as a consultant advisor to assess the farms current production and husbandry processes. You are then tasked with providing clear and accurate technical advice to the farm on how to correctly and efficiently improve production, and husbandry requirements in a report to the farm manager. |
| **Task 1** | You should write a clearly structured report evaluating the production and husbandry requirements of producing root crops and field vegetables. Your report should consider the following aspects of production and husbandry:<br><br>• Key biological and physical requirements for production, including; Climate, topography, soil type, soil pH, soil structure and crop growth, soil indices and Environmental considerations.<br>• Key husbandry requirements including; rotation, seeded requirements, pre-planting requirements, manure and fertiliser, weed, pest and disease control and irrigation.<br>• The role of legislation and codes of practice, including; Nitrate vulnerable zones, local environmental risk assessment procedures, safe use of chemicals, biosecurity, codes of practice, safe working practices and operator certification. |

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| **Checklist of evidence required** | A written report. |
| **Criteria covered by this task:** | |
| Unit/Criteria reference | To achieve the criteria you must show that you are able to: |
| A.D1 | Evaluate the importance of biological and physical factors, husbandry and legal requirements for root crops and field vegetable production. |
| A.M1 | Assess the influence of biological and physical factors on the production of root crops and field vegetables. |
| A. M2 | Assess the key requirements for the production of root crops and field vegetables, including the role of legal requirements. |
| A.P1 | Explain the influence of biological and physical factors on the production of root crops and field vegetables. |
| A.P2 | Explain the key husbandry requirements for the production of root crops and field vegetables, including legal requirements. |

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| **Sources of information to support you with this Assignment** | **Books**<br>Finch, S. Samuel, A. Lane, G. (2014). *Lockhart & Wiseman's Crop Husbandry Including Grassland (Woodhead Publishing Series in Food Science, Technology and Nutrition)*. 9th ed. London: Woodhead Publishing.<br><br>White. R (2005). *Principles and Practice of Soil Science: The Soil as a Natural Resource*. 4th ed. London: Wiley-Blackwell.<br>Warren, J. (2015). *Nature of Crops, The How we came to eat the plants we do*. Aberystwyth University: CABI Publishing.<br><br>**Journals/Magazines**<br>Farmers weekly<br>Farmers Guardian<br><br>**Websites**<br>sciencedirect.com |